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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,185	10/31/2003	Thierry Bieler	31849.41	9898
46334	7590 06/29/2005		EXAMINER	
HAYNES AND BOONE, LLP			COMAS, YAHVEH	
901 MAIN S SUITE 3100	- -	ART UNIT	PAPER NUMBER	
DALLAS, 7	ΓX 75202	2834		
			DATE MAILED: 06/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commany	10/698,185	BIELER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Yahveh Comas	2834					
The MAILING DATE of this communication apperent of the second	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-24</u> is/are rejected.	6) Claim(s) 1-24 is/are rejected.						
7) Claim(s) is/are objected to.		•					
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner	•						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list t	or the certified copies not receive	u.					
Au. 1 4 .							
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PT∩.413\					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date	6)						

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign mentioned in the description: reference number 30. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the battery must be shown or the feature canceled from the claims. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet,

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and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-19 and 22 rejected under 35 U.S.C. 103(a) as being unpatentable over Mihalko U.S. Patent No. 4,937,485 in view of Lindquist et al. U.S. Patent No. 6,737,784.

Mihalko discloses a electric motor use in a surgical procedure comprising a motor output member, a driven member coupled to the motor output member, and a driven member (29) having a winding (19) and a magnetic portion (29) disposed proximate the driven member (13) such that energizing the driving member imparts motion to the driven member. Also disclose a dc configuration use in a linear motor (fig. 10), disc-shaped motor (fig. 9) and outer rotor motor (fig. 8) but does not show a magnetic portion comprising a nanocrystalline alloy. However Lindquist disclose the use of nanocrytalline structure in order to low core loss and low saturation magnetostriction.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Mihalko's invention and provide a magnetic portion made of nanocrystalline alloy as disclosed Lindquist since that would had been desirable for having a structure with to low core loss and low saturation magnetostriction.

Regarding claim 2,3, 7, 8 it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Mihalko's invention in view of Lindquist and made the nanocrystalline alloy of a thickness between 100µm and about 100 mm, in order to optimize performance of the machine, and because it has been held that merely optimized known dimensions is within the ordinary skill in the art. (See *In re Aller, 105 USPQ 233.*)

Regarding claims 5 it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Mihalko's invention in view of Lindquist

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and provide a nanocrytalline alloy comprising a baron-based alloy since it has been held to be within the general skill of the worker in the art to select a know material on the basis of its suitability for intended use as matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Claims 19 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Philipp U.S. Patent No. 5,093,593 in view of Lindquist et al. U.S. Patent No. 6,737,784.

Philipp discloses a surgical instrument (10) comprising a housing, a power source, an output shaft (24) extending from the housing, a rotor (23) coupled to the output shaft, and a stator (34) having a winding (31) selectively connectable to the electric power source, and a magnetic portion disposed about the rotor (23). Also the surgical instrument comprises a surgical tool coupled to the shaft wherein said surgical tool is detachable from the output shaft (24). Philipp discloses the claimed invention except for the magnetic portion comprising a nanocrystalline alloy. However Lindquist disclose the use of nanocrytalline structure in order to low core loss and low saturation magnetostriction.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Philipp's invention and provide a magnetic portion made of nanocrystalline alloy as disclosed Lindquist since that would had been desirable for having a structure with to low core loss and low saturation magnetostriction.

Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mihalko U.S. Patent No. 4,937,485 in view of Lindquist et al. U.S. Patent No. 6,737,784 in further view of Sugg U.S. Patent No. 4867158.

Mihalko in view of Lindquist disclose the claimed invention except for the power source being a rechargeable battery. However, Sugg discloses a surgical instrument using a rechargeable battery to operate the motor.

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Mihalko's invention and provide a rechargeable battery (36) disclosed by Sugg since that would had been desirable for operating the motor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yahveh Comas whose telephone number is (571) 272-2020. The examiner can normally be reached on 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YC

DARREN SCHUBERG SUPERVISORY PATENT EXAMENT TECHNOLOGY CENTER 2011